

ABSTRACTAN ELECTRICAL CONDUCTOR WINDING AND A METHOD OF
MANUFACTURING AN ELECTRICAL CONDUCTOR WINDING

An electrical conductor winding (70) comprises a plurality
5 of laminates of electrical insulation (72). Each laminate
of electrical insulation (72) has a slot (78) on one
surface (76). Each laminate of electrical insulation (70)
has an electrical conductor (82) arranged in the slot (78).
An electrical connector (84) connects the electrical
10 conductor (82) in one laminate of electrical insulation
(78) with the electrical conductor (82) in an adjacent
laminate of electrical insulation (72). The laminates of
electrical insulation (72) are arranged such that the
surface (74) of one laminate of electrical insulation (72)
15 abuts and is bonded to the surface (76) of an adjacent
laminate of electrical insulation (12). The laminates of
electrical insulation (12) comprise a glass-ceramic
material. The electrical conductor windings allow active
magnetic bearings, electric motors and electric generators
20 to be used at temperatures up to 500°C for example in gas
turbine engines.

(Figure 4)